

SEP 24 2008

K082736

## SECTION II. 510(K) SUMMARY

### *A. Device Name*

Proprietary Name: Radifocus® Optitorque™ Angiographic Catheter

Classification Name: Angiographic Catheter

Common Name: Angiographic Catheter

### *B. Intended Use*

The Radifocus Optitorque Angiographic Catheter is intended for cardiac and vascular procedures. It is designed to deliver radiopaque media, guide wires, catheters, and therapeutic agents to selected sites in the vascular system. The different shapes are designed to selectively engage arteries from access sites such as the femoral, radial, and brachial artery.

### *C. Device Description*

The Radifocus Optitorque Angiographic Catheter is a two-layer construction comprised of a stainless steel mesh sandwiched between layers of polyurethane polyamide elastomer. The polyurethane polyamide elastomer contains barium sulfate for visibility and contrast under fluoroscopy. The Catheter has a "soft-tip" whose purpose is to minimize trauma to the vessel wall. The soft-tip is a flexible, supple polyurethane tip that is permanently welded to the catheter shaft.

### *D. Principle Of Operation / Technology*

The Radifocus Optitorque Angiographic Catheter is operated manually or by a manual process.

### *E. Design / Materials*

The Radifocus Optitorque Angiographic Catheter in this submission is the same device that was cleared under K992051. There are no changes in the design or materials.

#### ***F. Specifications***

Available Sizes	4 – 6 Fr.
Catheter Length	650 – 1200 mm
Maximum Injection Pressure	4 Fr.: 750 psi 5, 6 Fr.: 1000 psi

#### ***G. Performance***

A risk/hazard analysis was conducted according to EN ISO 14971 Medical Devices – Application of risk management to medical devices. Performance characteristics for this new indication for use were determined. Then it was justified that the performance of the Radifocus Optitorque Angiographic Catheter is substantially equivalent to the performance of the Radifocus Optitorque Angiographic Catheter cleared under K992051.

#### ***H. Additional Safety Information***

Manufacturing controls include visual, functional, dimensional and sterility tests.

Blood contacting materials were tested in accordance with the tests recommended in the FDA General Program Memorandum #G95-1 (5/1/95): Use of International Standard ISO-10993, “Biological Evaluation of Medical Devices Part-1: Evaluation and Testing”.

The catheter is classified as Externally Communicating Devices, Circulating Blood, limited Contact ( $\leq 24$  hrs). Results of the testing demonstrate that the blood contacting materials are biocompatible.

Sterilization conditions have been validated in accordance with EN ISO 11135-1, Sterilization of health care products – Ethylene Oxide – Part 1: Requirements for development, validation and routine control of sterilization process for medical devices. The device is sterilized to a SAL of  $10^{-6}$ .

***H. Substantial Equivalence***

The Radifocus Optitorque Angiographic Catheter is substantially equivalent in intended use, design, technology/principles of operation, materials and performance to the predicate device the Radifocus Optitorque Angiographic Catheter, cleared under K992051. Differences between the devices do not raise any significant issues of safety or effectiveness.

***I. Submitter Information***

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Date Prepared: August 29, 2008



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

SEP 24 2008

Food and Drug Administration  
9200 Corporate Boulevard  
Rockville MD 20850

Terumo Corporation  
c/o Mr. Mark Job  
Reviewer  
Regulatory Technology Services LLC  
1394 25<sup>th</sup> Street NW  
Buffalo, MN 55313

Re: K082736  
Radifocus Optitorque Angiographic Catheter  
Regulation Number: 21 CFR 870.1200  
Regulation Name: Diagnostic intravascular catheter  
Regulatory Class: Class II  
Product Code: DQO  
Dated: September 17, 2008  
Received: September 18, 2008

Dear Mr. Job:

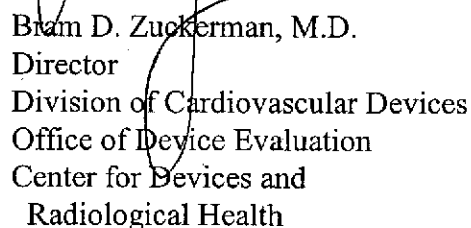
We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050. This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Center for Devices and Radiological Health's (CDRH's) Office of Compliance at (240) 276-0120. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding postmarket surveillance, please contact CDRH's Office of Surveillance and Biometrics' (OSB's) Division of Postmarket Surveillance at 240-276-3474. For questions regarding the reporting of device adverse events (Medical Device Reporting (MDR)), please contact the Division of Surveillance Systems at 240-276-3464. You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (240) 276-3150 or at its Internet address <http://www.fda.gov/cdrh/industry/support/index.html>.

Sincerely yours,



Bram D. Zuckerman, M.D.  
Director  
Division of Cardiovascular Devices  
Office of Device Evaluation  
Center for Devices and  
Radiological Health

Enclosure

## Indications for Use

510(k) Number (if known): \_\_\_\_\_

Device Name: Radifocus® Optitorque™ Angiographic Catheter

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Prescription Use   X    
(Part 21 CFR 801 Subpart D)

AND/OR

Over-The-Counter Use \_\_\_\_\_  
(21 CFR 807 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

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Concurrence of CDRH, Office of Device Evaluation (ODE)

  
\_\_\_\_\_  
(Division Sign-Off)

Division of Cardiovascular Devices

510(k) Number   K082936